INITIAL REVIEW EXPOSURE REPORT

Chemical ID: Jeffamine DA BRSA

Assessor:

ENVIRONMENTAL RELEASES

Scenario#:1

Number of Release Sites: 1.

Release Activity:

Release Hervity.					
Release Description:	WATER	LANDFILL	STACK	FUGITIVE	
		Non-sludge/Sludge			
Total Releases:	8.00	N/A	0.11	0.00	
	(kg/yr)	(kg/yr)	(kg/yr)	(kg/yr)	
		Non-sludge/Sludge			
Release Days/yr:	50.00	0.00/0.00	50.00	0.00	
Per Site Release:	0.16	N/A/0.00	2.26E-03	0.00	
	(kg/site/day)	(kg/site/day)	(kg/site/day)	(kg/site/day)	

Remarks:

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SITE-SPECIFIC HUMAN AND AQUATIC EXPOSURES TO SURFACE WATER RELEASES: LAKES, BAYS, ESTUARIES, AND OCEANS					
SCENARIO #: 1 RELEASE ACTIVITY:					
FACILITY NAME: BAYSHORE REGIONAL SA					
FACILITY LOCATION: UNION BEACH NJ 07735					
RECEIVING WATER NAME: ATLANTIC OCEAN					
REACH NUMBER: 02030104014	FACILITY ON REACH: Unk	DISCHARGE TYPE: Direct			
NPDES PERMIT #: NJ0024708	EXPOSED POPULATION: Adult				

WWT REMOVAL (%)	RELEASE DAYS	PLANT FLOW (MLD)	PRETREAT RELEASE (kg/site/day)	POST-TREAT RELEASE (kg/site/day)	BCF (L/kg)
21.98	50.	25.92	0.16	0.12	3.16

AQUATIC EXPOSURE ESTIMATES					
MIXING ZONE	DILUTION FACTOR	WATER CONCENTRATION (ug/L)			
ACUTE SCENARIO	23.90	0.20			
CHRONIC SCENARIO	65.00	7.41E-02			

FISH INGESTION EXPOSURE ESTIMATES						
		ASSUMPTIONS				
Exposure Units	Results	ED	AT	BW	IR	
		(years)	(years)	(kg)	(g/day)	
Cancer						
LADD _{pot} (mg/kg/day)	1.27E-09	33.00	78.00	80.00	7.50	
LADC _{pot} (mg/kg)	1.36E-05	33.00	78.00	NA	NA	
Acute						
ADR _{pot} (mg/kg/day)	2.22E-06	NA	1 day	80.00	279.00	

Lakes Comments:

INHALATION EXPOSURE ESTIMATES (POST-TREATMENT)

SCENARIO #: 1 RELEASE ACTIVITY:

RELEASE DESCRIPTION:

METHOD OF CALCULATION: Screen3

EXPOSED POPULATION: Adult

Number of Sites: 1.

Per Site Fugitive Release: NA kg/site/day

Fugitive Release Days per Year: NA days

% Removal via Fugitive Release: 0.00 %

Total Fugitive Release: NA kg/yr

Max Annual Average Air Concentration 0.00 μg/m³

(Fugitive):

Max 24 Hour Average Air $0.00 \mu g/m^3$

Concentration(Fugitive):

Per Site Stack Release: 2.26E-03 kg/site/day

Stack Release Days per Year: 50.00 days

% Removal via Stack Release: 90.00 %

Total Stack Release: 0.11 kg/yr

Max Annual Average Air Concentration (Stack): 4.17E-05 μg/m³

Max 24 Hour Average Air Concentration (Stack): 1.52E-03 μg/m³

	Results (Stack)	Results (Fugitive)	ASSUMPTIONS				
Exposure Units			ED (years)	AT (years)	BW (kg)	Inh. Rate (m³/hr)	
Cancer							
LADD _{pot} (mg/kg/day)	3.23E-09	0.00	33.00	78.00	80.00	0.61	
LADC _{pot} (mg/m ³)	1.76E-08	0.00	33.00	78.00	NA	NA	
Acute							
ADR _{pot} (mg/kg/day)	2.78E-07	0.00	NA	1 day	80.00	0.61	

Inhalation Comments: Stack release is from sludge incineration. Quantity of sludge is $0.156 \times 1.45\% = 2.26E-3$ kg/site /d. Assuming 90% removed during the process.

Stack Parameter Data			Fugitive Parameter Data			
Stack Height	10.00	m	Release I	Release Height:		N/A
Inside Stack Diameter:	0.10	m	Length of Opening:			N/A
Stack Gas Exit Velocity:	0.10	m/sec	Width of Opening:			N/A
Stack Gas Temperature:	293.00	K				
Meteorological and Terra	ain Information:					
Surrounding Land Use:			Rural			
Terrain Height:			0.00	m		
Distance to Residence of	100.00	m				
Meteorological Class:			Full			
Stability Class:			NA			
Wind Speed:			NA			
Downwash Information:						
Facility Length:			NA	m		
Facility Width:			NA	m		

NA m

Facility Height: